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A NEW BRACHYTHECIUM.

Brachythecium rivulare B. & S. var. tenue n. var.

A. J. GROUT.

European and Northeastern American forms of *B. rivulare*, almost without exception, have the stem leaves obtuse to obtusely acute, never slenderly acuminate, but Northwestern American forms seems to have a tendency to vary in the direction of acute to slenderly acuminate stem leaves. *B. Nelsoni* Grout is the extreme limit of this tendency that has thus far come under my observation. *B. rivulare laxum* Grout is another illustration of this tendency, and Prof. John M. Holzinger has discovered a third very interesting form in Lamoille Cave, Minnesota, to which I desire to give the name of *B. rivulare tenue*.

Prof. Holzinger's specimens were collected August 23, 1894, and have been sent out as "No. 7, Hypnum." Specimens have been in my hands for some years and the plant has been examined by M. Cardot, but neither of us has felt sure of its proper place. Recently, however, I have compared it with some specimens of undoubted *B. rivulare* from Tuckerman's Ravine, Mt. Washington, collected by myself in 1898, and find that the two can scarcely be distinguished except by the acuminate stem leaves of the Minnesota plant which is briefly characterized as follows: plants prostrate or ascending, irregularly branched, slender, very light glossy yellow, lower leaves distant and often spreading, the upper closely imbricated, giving the upper portions of the plant the appearance of forms of *B. oxycladon*. Microscopical structure like that of slender *B. rivulare*, except that the stem leaves are acuminate with a rather short slender point. No antheridia, archegonia or sporophytes found.

Type in herbarium A. J. Grout. Co-types will be issued as No. 200 of my North American Musci Pleurocarpi.

MUSCI BORAELI-AMERICANI.

Fascicle I. by Prof. J. M. Holzinger.

A. J. GROUT.

Every student of North American mosses will welcome Prof. Holzinger's Musci Acrocarpi Boreali-Americani as a much needed addition to the knowledge of our acrocarpous mosses. Mrs. Britton formerly planned something of the sort but pressure of other work has caused her to give up the plan.

The first fascicle of Prof. Holzinger's mosses are nearly all his own collecting, and came from an interesting section of the country. There are twenty-five numbers in the fascicle and all are abundant in material and neatly put up. As the labels do not give the name of the person determining the specimens, except in one or two cases, we presume that Prof. Holzinger is responsible for most of the naming, and the determination seem to have been made with a care that merits one's confidence. As Prof. Holzinger puts up but twenty-five sets those who intend to subscribe should do so at once or it will be too late.